



Building and Safety 760.202.9253

PHOTOVOLTAIC SOLAR PLAN SUBMITTAL REQUIREMENTS

2010 California Electrical Code

Information shall include documentation for Panels, Inverters and Support system.

Include the following documentation NOTE: HOA LETTER MUST ACCOMPANY SUBMITTAL

- PLANNING DEPARTMENT APPROVAL STAMP AT TIME OF SUBMITTAL

For approvals requiring "screening" complete details for screening shall be included on approved plans

- Two complete sets of signed plans shall be submitted
- Include cut sheets for all equipment (panels, inverters, disconnect, etc.)
- Actual valuation of installation *before* any rebates or credits
- Permit fee is due at submittal, average fee is \$342.55 (add \$122.50 for service upgrade)
- Approved method of flashing all penetrations CRC 903.2, 905.2.8.1, 905.3.8
- Note: "Tile Track" is not recognized by code, nor are liquid sealants in lieu of approved flashings
- Approved method of support with documentation with wet signed engineering calculations for 85 mph, exposure "C" and the seismic zone for location of installation. Include the support span dimensions.

Provide complete Single Line Drawing and detail the following:

1. Main service size in amps, list size of any sub-panels used, INCLUDE A PHOTO OF THE SERVICE
2. Size of back fed breaker in amps. (See CEC 690.64 (B) (2))
3. Quantity of panels per string, strings per inverter, inverters per system.
4. Over current requirement of the panels used and the over current device(s) installed.
5. List output voltage on D/C conductors from strings and combiner boxes to D/C disconnect
6. List type, temperature rating and size of all conductors. Design temperature is 111 degrees F.
7. Include conductor correction factor for all roof mounted raceways per. CEC 315.15 (B) (2) (c)

List Location of all equipment installed:

1. Show location of conduit runs on roof.
2. Show location of combiner boxes at end of each string and list fuse size if any.
3. Show location of A/C and D/C disconnects,
Note: Point of Connection Disconnect must be readily accessible 690.17
4. Detail panel bonding, how you will bond each panel and the complete system.
5. Show location of inverters and any new panel boards installed (sub-panels)

Safeguards

1. All interconnections between PV panels must be permanently secured and protected against damage (CEC 300.4) No loose conductors hanging under panels.
2. All connections between strings must be in metal conduit (CEC 300.3, 352.12 C, D 350.12 1, 2)
3. Roofing materials damaged by installation shall be replaced.
4. All panels and equipment shall have required clearances, and be accessible for service.
5. Labeling shall be per. CEC; 690.5(C), 690.7(E), 690.9(C), 690.17(4), 690.35(F) 690.64(B) (7)